

MSG-079 C-BML Workshop

Farnborough UK, Feb 24-25 2010

MSG-085

C2-Simulation Interoperation



Standardization for C2 Simulation Interoperation

Report Documentation Page				Form Approved OMB No. 0704-0188	
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1. REPORT DATE FEB 2010		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE NATO MSG-085 C2-Simulation Interoperation				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) NATO RTO				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES See also ADA564685. 2010 Coalition Battle Management Language Workshop (Atelier 2010 sur le langage de gestion du champ de bataille pour les operations en coalition). RTO-MP-MSG-079					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES 14	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

MSG 085 - Objectives

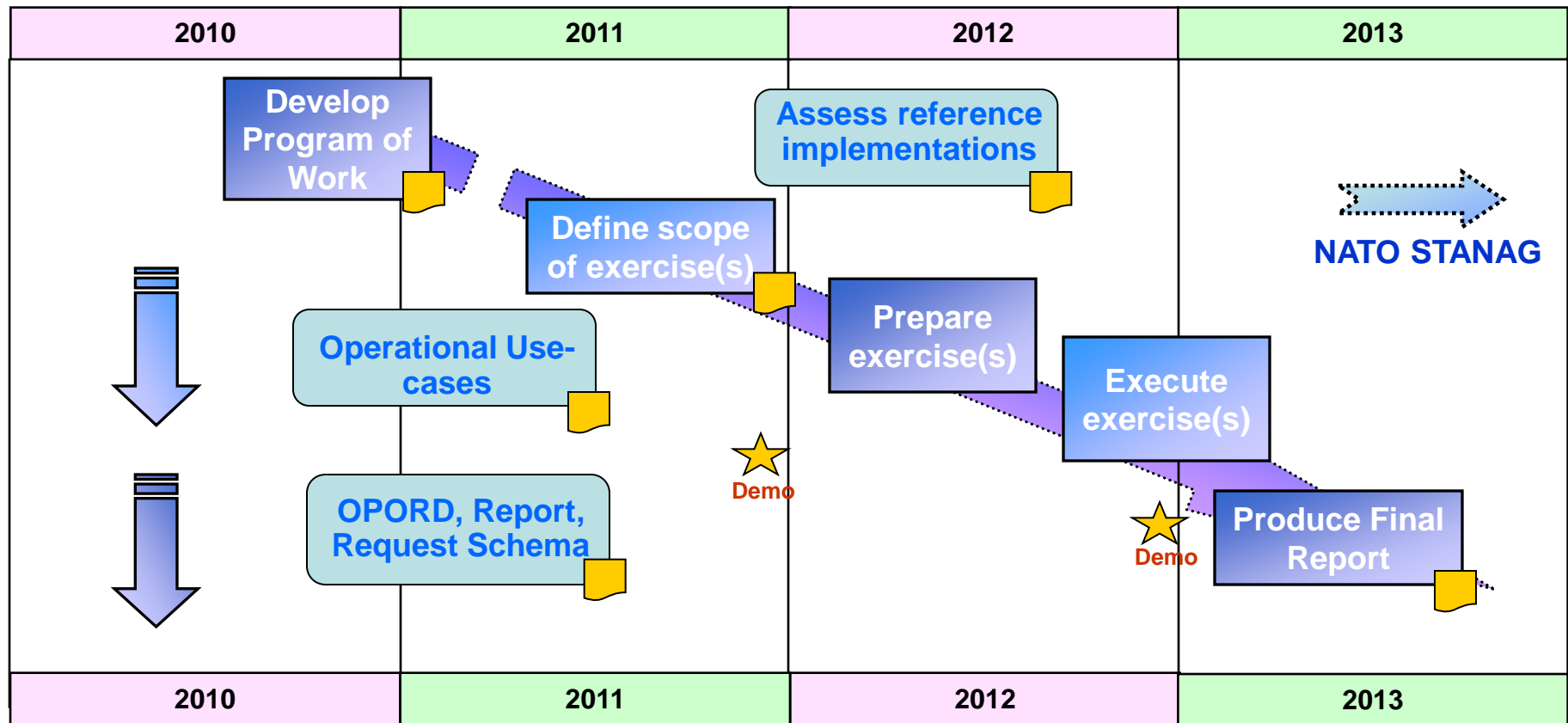
A. Pursue ongoing work to propose relevant recommendations concerning the use of C-BML with respect to current military processes

B. Investigate approaches for the deployment of C-BML capabilities complementing existing operational C2 system exchange mechanisms

In order to support these objectives, the program should:

1. Detail the C-BML scope and requirements
2. Provide C-BML military user guide including MSDL
3. Assess available C-BML open-source reference implementations
4. Demonstrate how C-BML complements the MIP standard
5. Show immediate operational benefits to C2 and M&S communities
6. Conduct a series of experiments if needed and operational exercises with end-users in the loop

MSG 085 - Planning



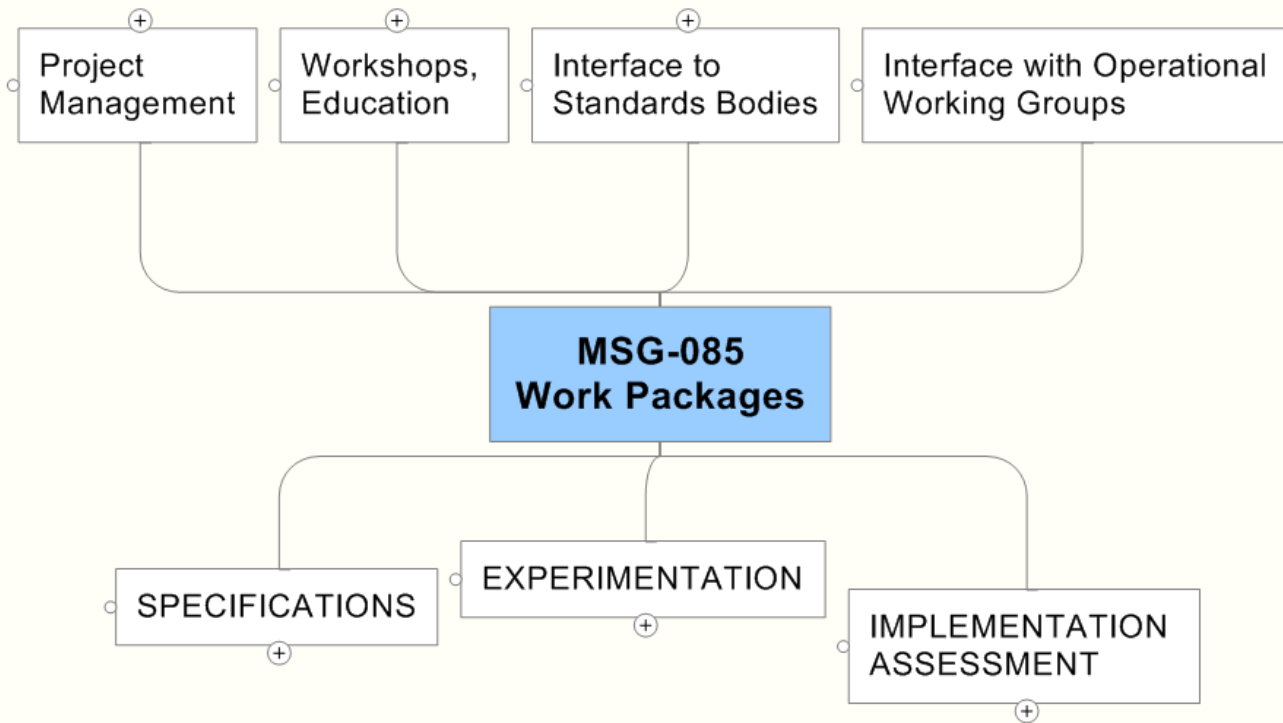
MSG 085 - Stakeholders

- Elaborate and check requirements with operational end-users
JFCOM, National Forces
NATO (JWC, JFTC, HRF, ACO), EU-OHQ, EU-FHQ
- Identify limits of existing C2-C2 interoperability applied to C2-simulation use-cases
MIP Working Group
- Provide recommendations for C-BML PDG and speed up standardization
SISO C-BML PDG
- Nations
Australia, Canada, Denmark, France, Germany, Netherlands, Norway, Spain, United Kingdom, United States of America, NC3A

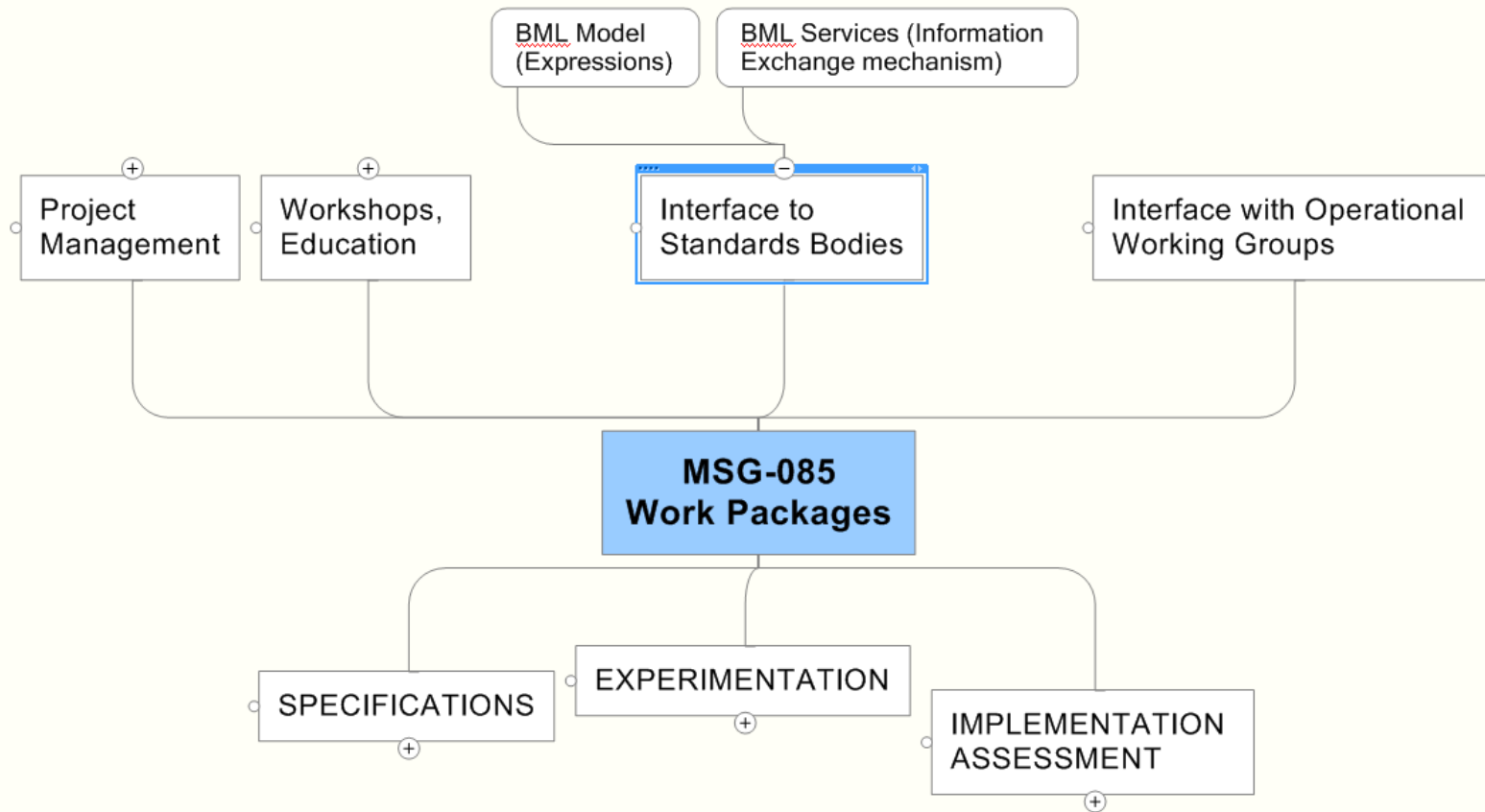
MSG 085 - Deliverables

- Statement of requirements (SOR)
- For C-BML exercise :
 1. Scenario Definition
 2. Programme of Exercise (including technical architecture and exercise organization)
 3. Integration and Test Plan
 4. Interface Control Document
- Evaluation report of C-BML open-source reference implementations
- Guidelines and procedures to use C-BML for each coalition application domain
- Final report

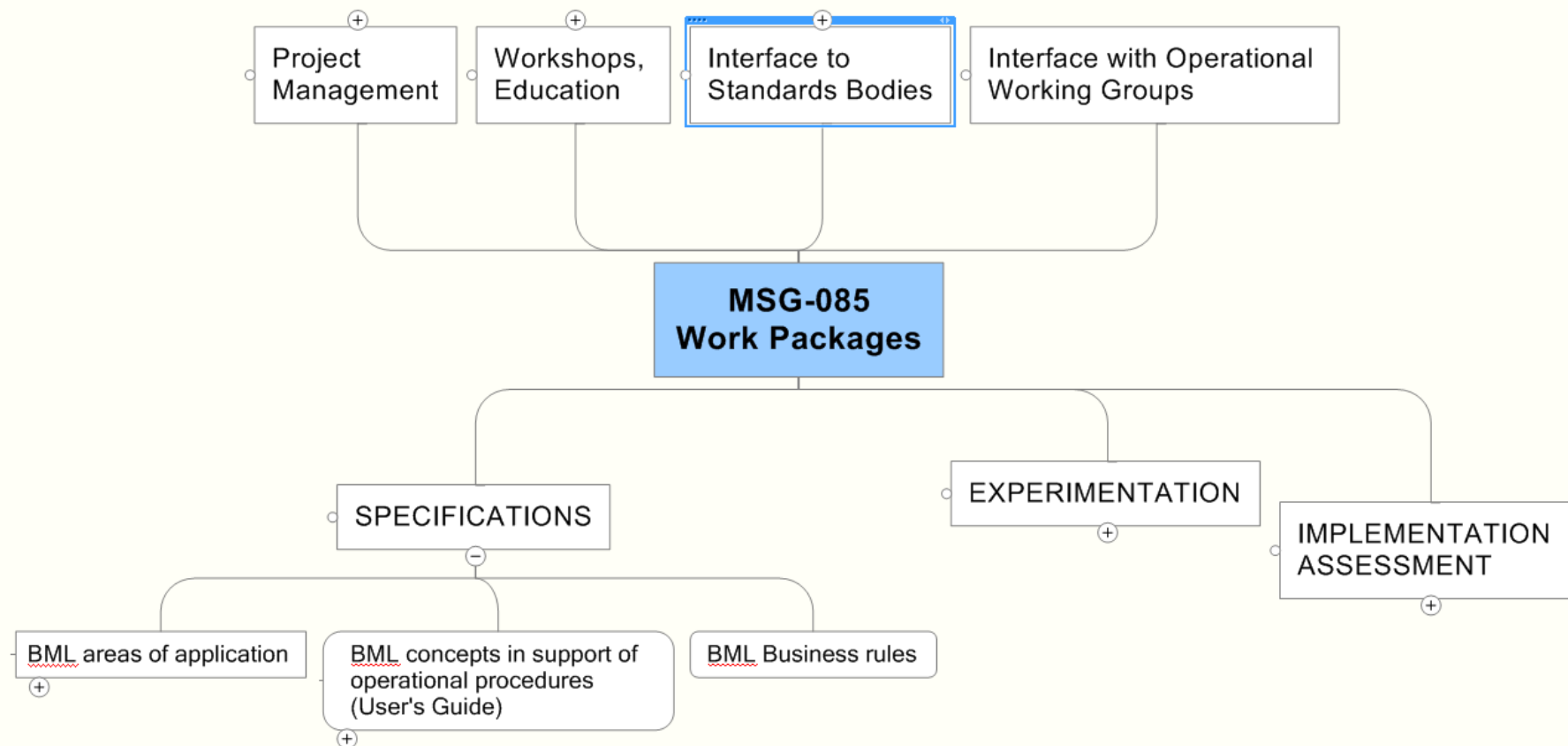
MSG 085 – Work Packages



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MSG 085 – Military Concern

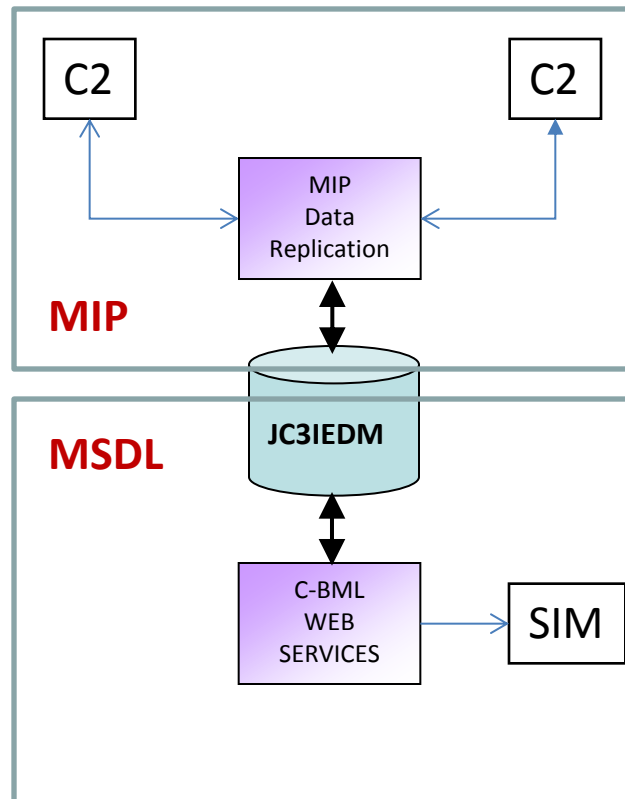
- Exchange of information should not
 - Constrain C2 system end users
 - Force to change their procedures
 - Introduce operator or system information overload
 - Require modifications or additions to existing C2 systems
 - Generate additional expenses for C2 system PM
- C-BML should
 - Only address simulation requirements and have no impact on C2 system specifications and interfaces
 - Be transparent from a C2 perspective
 - Be usable by legacy systems

MSG 085 – User Guide Ideas

Initialization : Combine MIP / MSDL

MIP C2-C2

- Data type
- ORBAT
- Unit initial state



MSDL C2-SIM

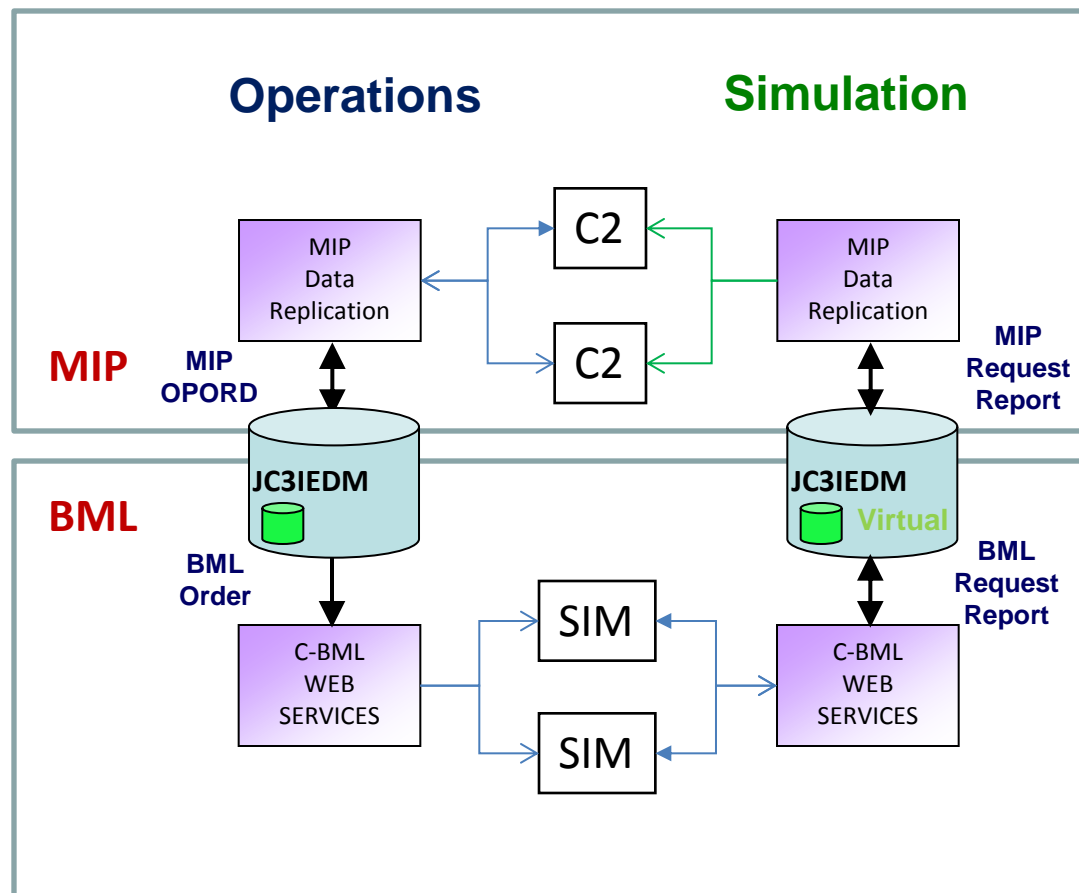
- Data type
- ORBAT
- Units initial state

MSG 085 – User Guide Ideas

Execution MIP/MSDL: Control the simulation from the C2sys without interfering with operational databases, while preserving legacy C2 system interfaces

Order

- Actions
- Control features
- Coordination measures
- Task Organization












MSG 085 – 2010 ... 2013

- Reach a TA consensus between **the military requirements** to use quickly C-BML and **the academic expectations** about a perfect system demonstrating full potential of theory (**2010**)
 - Focus on short term
- Be adopted by the **MIP** as a **COI** to secure the future of C-BML in demonstrating real value to the MIP Program Management Group and IPT Future (**2011**)
 - Provide : Grammar, Web services, Data Model subviews, Joint capabilities
 - Leverage : MIP testing with the use of simulation
 - Lobbying: National representatives and TA liaison officer

MSG 085 – 2010 ... 2013

- Start the process for SISO C-BML standard (DG) to become a STANAG (**2012**)
- Field C-BML during an exercise involving on duty military SME's, decision makers and key leaders (**2013**)
- Advertise, educate and demonstrate at large the real potential of C-BML (**permanent**)
 - Annual symposium, international workshops
 - I/ITSEC, ITEC, NATO conference, SISO

MSG-085 high expectations for a tremendous challenge

TG 085 Co-chairs			
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GERMANY		The NETHERLANDS	
NORWAY		SPAIN	
UNITED KINGDOM		USA	